

What is claimed is:

1. A method of providing an identifier of a database record, the method comprising:

receiving a request for the identifier of the database record;

5 generating a first value responsive to a second value stored solely in volatile storage; and

responsive to the receiving the request step, providing the first value for use as the identifier of the database record.

2. The method of claim 1 wherein the receiving and generating and providing steps are performed by an operating system.

3. The method of claim 2 wherein the operating system comprises CICS/ESA.

4. The method of claim 1 wherein the providing the first value step comprises providing the first value to an application program prior to any storage of the first value in a database as an identifier of the database record.

5. The method of claim 1 wherein the database record corresponds to at least one transaction.

6. The method of claim 5 wherein the transaction involves a security.

7. The method of claim 1 additionally comprising:  
requesting the second value from the database; and  
receiving from the database the second value  
requested; and

5 storing the second value received.

8. The method of claim 7 wherein the value is requested by requesting one selected from a highest record identifier and a lowest record identifier.

9. The method of claim 7 wherein the value is requested responsive to at least one timestamp.

10. The method of claim 9 wherein at least one of the at least one timestamp corresponds to a failure.

11. A computer program product comprising a computer useable medium having computer readable program code embodied therein for providing an identifier of a database record, the computer program product comprising computer  
5 readable program code devices configured to cause a computer system to:

receive a request for the identifier of the database record;

generate a first value responsive to a second value  
10 stored solely in volatile storage; and

responsive to the computer readable program code  
devices configured to cause the computer system to receive  
the request, provide the first value for use as the  
identifier of the database record.

12. The computer program product of claim 11 wherein  
the computer readable program code devices configured to  
cause the computer system to receive and generate and  
provide comprise an operating system.

13. The computer program product of claim 12 wherein  
the operating system comprises CICS/ESA.

14. The computer program product of claim 11 wherein  
the computer readable program code devices configured to  
cause the computer system to provide the first value  
comprise computer readable program code devices configured  
5 to cause the computer system to provide the first value to  
an application program prior to any storage of the first  
value in a database as an identifier of the database  
record.

15. The computer program product of claim 11 wherein  
the database record corresponds to at least one  
transaction.

16. The computer program product of claim 15 wherein the transaction involves a security.

17. The computer program product of claim 11 additionally comprising:

computer readable program code devices configured to cause the computer system to request the second value from  
5 the database; and

computer readable program code devices configured to cause the computer system to receive from the database the second value requested; and

computer readable program code devices configured to  
10 cause the computer system to store the second value received.

18. The computer program product of claim 17 wherein the computer readable program code devices configured to cause the computer system to request the value comprise computer readable program code devices configured to cause  
5 the computer system to request one selected from a highest record identifier and a lowest record identifier.

19. The computer program product of claim 17 wherein the computer readable program code devices configured to cause the computer system to request the value are responsive to at least one timestamp.

20. The computer program product of claim 19 wherein at least one of the at least one timestamp corresponds to a failure.

21. A system for providing an identifier of a database record, the method comprising:

a request receiver having an input operatively coupled for receiving a request for the identifier of the database  
5 record, the request receiver for signaling at an output responsive to the request received at the request receiver input;

an increaser/storer for generating a first value responsive to a second value stored solely in volatile  
10 storage and for providing the first value at an output; and

a provider for receiving the first value at an input coupled to the increaser/storer output and for providing at an output coupled to a database input the first value for use as the identifier of the database record.

22. The system of claim 21 wherein the request corresponds to an operating system applications programming interface call.

23. The system of claim 22 wherein the operating system comprises CICS/ESA.

24. The system of claim 21 wherein the increaser/storer generates the first value by adding an additional value to the second value.

25. The system of claim 21 wherein the database record corresponds to at least one transaction.

26. The system of claim 25 wherein the transaction involves a security.

27. The system of claim 21:

wherein the increaser/storer additionally comprises a value input for receiving the second value, the increaser/storer additionally for storing the second value  
5 received at the value input; and

additionally comprising a recovery manager for:

providing at an output a request for a set of at least one value comprising the second value;

receiving at an input coupled to the database the set  
10 of at least one value; and

providing at a value output coupled to the increaser/storer value input the second value.

28. The system of claim 27 wherein the request provided by the recovery manager corresponds to a request

for at least one selected from a highest record identifier and a lowest record identifier.

29. The system of claim 27 wherein the recovery manager additionally comprises a timestamp input for receiving at least one timestamp, each of the at least one timestamp comprising at least one selected of an indicator  
5 of a time and an indicator of a date, and the recovery manager requests the set of at least one value responsive to the at least one of the at least one timestamp received at the timestamp input.

30. The system of claim 29 wherein at least one of the at least one timestamp corresponds to a failure.